WHAT IS CLAIMED IS:

1	1. A method for input parameter binding, comprising:		
2	when executing a statement, comparing data in an application structure of the		
3	statement with optimization information in a bind-in structure; and		
4	when there is a match between the data in the application structure and data in th		
5	optimization information in the bind-in structure, executing the statement with the		
6	optimization information.		
1	2. The method of claim 1, further comprising:		
2	when there is not a match between the data in the application structure and the		
3	optimization information, regenerating optimization information.		
1	3. The method of claim 1, further comprising:		
2	at bind time, storing the optimization information in the bind-in structure.		
1	4. The method of claim 1, wherein the optimization information includes at		
2	least one of data type, length, Coded Character Set Identifier, an array size, an indication		
3	of whether conversions are required, and an indication of whether the required		
4	conversions are valid.		
1	5. The method of claim 1, further comprising:		
2	for fixed length data,		
3	storing an increment length by which a data pointer that is pointing to data		
4	in an application program area is to be incremented to find a location of a next data		
5	value; and		
6	calculating the location of the next data value by adding the increment		
7	length to the data pointer.		

1	6. The method of claim 1, further comprising:		
2	for distributed processing, at a client computer, calculating a location of data in a		
3	client communications buffer.		
1	7. The method of claim 1, further comprising:		
2	for distributed processing, at a server computer, calculating a location of data in a		
3	server communications buffer.		
1	8. The method of claim 1, further comprising:		
2	for distributed processing, at a client computer, calculating a location of data in an		
3	application program address space.		
1	9. The method of claim 1, further comprising:		
2	when returning a handle to a cursor to a result set from a stored procedure to an		
3	application, recalculating the optimization information.		
1	10. A method for output parameter binding, comprising:		
2	when executing a statement, comparing data in an application structure of the		
3	statement with optimization information in a bind-out structure; and		
4	when there is a match between the data in the application structure and data in the		
5	optimization information in the bind-out structure, executing the statement with the		
6	optimization information.		
1	11. The method of claim 10, further comprising:		
2	when there is not a match between the data in the application structure and the		
3	optimization information, regenerating optimization information.		

1	1 12. The method of claim 10, further comprising:		
2	at bind time, storing the optimization information in the bind-out structure.		
1	1 13. The method of claim 10, wherein the optimization information	on includes at	
2	least one of data type, length, Coded Character Set Identifier, an array size, a	an indication	
3	of whether conversions are required, and an indication of whether the required		
4	conversions are valid.		
1	1 14. The method of claim 10, further comprising:		
2	for fixed length data,		
3	3 storing an increment length by which a data pointer that is po	inting to data	
4	4 in an application program area is to be incremented to find a location of a ne	xt data	
5	5 value; and		
6	6 calculating the location of the next data value by adding the is	ncrement	
7	7 length to the data pointer.		
1	1 15. The method of claim 10, further comprising:		
2	for distributed processing, at a client computer, calculating a location of data in a		
3	client communications buffer.		
1	1 16. The method of claim 10, further comprising:		
2	for distributed processing, at a server computer, calculating a location	n of data in a	
3	server communications buffer.		
1	1 17. The method of claim 10, further comprising:		
2	for distributed processing, at a client computer, calculating a location of data in a		

3 application program address space.

1	18. The method of claim 10, further comprising:		
2	when returning a handle to a cursor to a result set from a stored procedure to an		
3	application, recalculating the optimization information.		
1	19. An article of manufacture including a program for input parameter		
2	binding, wherein the program causes operations to be performed, the operations		
3	comprising:		
4	when executing a statement, comparing data in an application structure of the		
5	statement with optimization information in a bind-in structure; and		
6	when there is a match between the data in the application structure and data in the		
7	optimization information in the bind-in structure, executing the statement with the		
8	optimization information.		
1	20. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	when there is not a match between the data in the application structure and the		
4	optimization information, regenerating optimization information.		
1	21. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	at bind time, storing the optimization information in the bind-in structure.		
1	22. The article of manufacture of claim 19, wherein the optimization		
2	information includes at least one of data type, length, Coded Character Set Identifier, an		
3	array size, an indication of whether conversions are required, and an indication of		
4	whether the required conversions are valid.		

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1	23. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	for fixed length data,		
4	storing an increment length by which a data pointer that is pointing to data		
5	in an application program area is to be incremented to find a next data value; and		
6	calculating the location of the next data value by adding the increment		
7	length to the data pointer.		
1	24. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	for distributed processing, at a client computer, calculating a location of data in		
4	client communications buffer.		
1	25. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	for distributed processing, at a server computer, calculating a location of data in a		
4	server communications buffer.		
1	26. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	for distributed processing, at a client computer, calculating a location of data in a		
4	application program address space.		
1	27. The article of manufacture of claim 19, wherein the operations further		
2	comprise:		
3	when returning a handle to a cursor to a result set from a stored procedure to an		
4	application, recalculating the optimization information.		

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1	20.	An article of manufacture including a program for output parameter
2	binding, when	rein the program causes operations to be performed, the operations
3	comprising:	
4	when	executing a statement, comparing data in an application structure of the
5	statement wit	h optimization information in a bind-out structure; and
6	when	there is a match between the data in the application structure and data in the
7	optimization information in the bind-out structure, executing the statement with the	
8	optimization information.	
1	29.	The article of manufacture of claim 28, wherein the operations further
2	comprise:	
3	when	there is not a match between the data in the application structure and the
4	optimization	information, regenerating optimization information.
1	30.	The article of manufacture of claim 28, wherein the operations further
2	comprise:	
3	at bine	d time, storing the optimization information in the bind-out structure.
1	31.	The article of manufacture of claim 28, wherein the optimization
2		ncludes at least one of data type, length, Coded Character Set Identifier, an
3	array size, an	indication of whether conversions are required, and an indication of
4	whether the re	equired conversions are valid.
1	32.	The article of manufacture of claim 28, wherein the operations further
2	comprise:	
3	for fix	ed length data,
4		storing an increment length by which a data pointer that is pointing to data
5	in an applicat	ion program area is to be incremented to find a next data value; and

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calculating the location of the next data value by adding the increment 7 length to the data pointer. 1 33. The article of manufacture of claim 28, wherein the operations further 2 comprise: 3 for distributed processing, at a client computer, calculating a location of data in a 4 client communications buffer. 1 34. The article of manufacture of claim 28, wherein the operations further 2 comprise: 3 for distributed processing, at a server computer, calculating a location of data in a 4 server communications buffer. 1 35. The article of manufacture of claim 28, wherein the operations further 2 comprise: 3 for distributed processing, at a client computer, calculating a location of data in an 4 application program address space. 1 36. The article of manufacture of claim 28, wherein the operations further 2 comprise: 3 when returning a handle to a cursor to a result set from a stored procedure to an 4 application, recalculating the optimization information. 1 37. A system for input parameter binding, comprising: 2 when executing a statement, means for comparing data in an application structure of the statement with optimization information in a bind-in structure; and

- when there is a match between the data in the application structure and data in the optimization information in the bind-in structure, means for executing the statement with the optimization information.

 38. A system for output parameter binding, comprising:
 when executing a statement, means for comparing data in an application structure of the statement with optimization information in a bind-out structure; and
- 5 optimization information in the bind-out structure, means for executing the statement

when there is a match between the data in the application structure and data in the

6 with the optimization information.

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